

MATH TEAM PRE-CALCULUS

Syllabus

James Clemens High School
11306 County Line Road
Madison, AL 35756

Teacher: Mr. Chase Evans
Email: tcevans@madisoncity.k12.al.us
Phone: 256-216-5313 ext. 95144

- I. Course Description:** Math Team Pre-Calculus is a college-preparatory course with a rigorous intensity and pace intended for highly motivated students who have successfully completed Algebra II with Trigonometry. A variety of topics are reviewed and expanded upon, including trigonometry, complex numbers, functions, graphing, and logarithms. Many topics are combined to explore new areas such as polar coordinates, polar graphing, conic sections, vectors, matrices, polynomial theory, and induction proofs. Limits and derivatives are introduced. Graphing is studied in-depth to determine properties of functions. Many other areas are covered to give the college-bound student a basis for calculus. Graphing calculator use is encouraged.
- II. Course Objectives:** Course objectives can be found at http://alex.state.al.us/staticfiles/2010_Alabama_Mathematics_Course_of_Study.pdf .
Upon completion of this course a student should be able to:
- Demonstrate a theoretical, operational, and graphical understanding of functions including polynomial, rational, exponential, logarithmic, and trigonometric.
 - Apply algebraic skills to the formulation and solution of real world application problems.
 - Represent equations and systems of equations graphically, and to integrate the algebraic and graphic interpretation of these concepts.
 - Advance readily to higher level math classes – Calculus.
- III. Classroom Expectations:**
- *Be respectful:* Show all others the respect that you would like to be shown.
 - *Be prepared:* Bring all of the necessary supplies to class every day.
 - *Be positive:* Have a good attitude toward others, the content, and learning.
 - *Strive to be your very best:* Don't worry about what others think about you. Do the best that you can do.

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Accommodations:

Requests for accommodations for this course or any school event are welcomed from students and parents.

Concerning laptop utilization:

1. Student laptops should not be hard wired to the network or have print capabilities.
2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers.
3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops.
4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

IV. Grading Policy:

Math Team Pre-Calculus is an honors level course. Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades. The grading scale is as follows: A (90-100), B (80-89), C (70-79), D (65-69), and F (below 65). Grades will be a reflection of mastery of the standards. Make sure all absences are excused as class work can be made up and graded for excused absences only. The Final Exam counts for 1/5 of final grade.

V. Make-up Test Policy:

To be arranged by the student on the first day back to class.

VI. Text and Other Required Reading:

Sullivan, Michael and Sullivan, Michael. *PreCalculus: Enhanced with Graphing Utilities*, 6th ed. Boston, MA: Pearson, 2013.

VII. Materials and Supplies Needed:

Three Ring Binder, Tab Dividers, Notebook Paper, Graph Paper, Pencil (**No Pens**), and a TI-84 Graphing Calculator (you will also use this next year in AP Calculus). In-class tests will often have a calculator portion and a non-calculator portion.

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18-Week Plan	
Week 1	Trigonometric Functions and Analytic Trigonometry
Week 2	Trigonometric Functions and Analytic Trigonometry
Week 3	Polar Coordinates
Week 4	Vectors
Week 5	Vectors
Week 6	Conic Sections and Parametric Equations
Week 7	Conic Sections and Parametric Equations
Week 8	Systems of Equations and Matrices
Week 9	Systems of Equations and Matrices
Week 10	Sequences, Induction, and Binomial Theorem
Week 11	Sequences, Induction, and Binomial Theorem
Week 12	Functions
Week 13	Functions
Week 14	Polynomial and Rational Functions
Week 15	Polynomial and Rational Functions
Week 16	Exponential and Logarithmic Functions
Week 17	Exponential and Logarithmic Functions
Week 18	Semester Exam Review

* The syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions, or substitutions. Adequate notice will be provided to students of any necessary changes.

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Dear Parent/Guardian,

I first want to mention that I am excited about working with you and your child this year at James Clemens High School. I am confident that this is going to be a successful year. Your child has been given digital access to a class syllabus along with this letter. The class syllabus details everything your child will need to know to be successful in my class, specifically classroom policies and procedures. Please read the syllabus with your child, complete the bottom portion of this letter, and have your child return it to my class by the end of the first week of school. The syllabus should answer any initial questions you may have.

Please feel free to contact me at any time. The best way to reach me is by email: tcevans@madisoncity.k12.al.us. You can also reach me by phone at (256) 216-5313 ext. 95144. Once again, I look forward to working with you and your child this year!

Thank you,

Chase Evans

(Cut along this line. Keep top portion. Return bottom portion to Mr. Evans.)

Student Name (Print) _____ Date _____

Parent/Guardian Name (Print) _____ Date _____

Parent/Guardian Signature _____ Date _____

Parent Email Addresses _____(work)

_____ (home)

Parent Phone Numbers _____(work) _____(home)

_____ (cell)